

CLAIMS:

1. A pharmaceutical comprising:

(a) a therapeutic protein that binds to a therapeutic target, said protein being modified with a compound that inhibits binding of the protein to the therapeutic target, said modified protein being effective for reducing side effects caused by the protein and for producing a therapeutic effect by binding to the therapeutic target; and (b) a pharmaceutical carrier.

2. The pharmaceutical of Claim 1 wherein the therapeutic protein is an antibody that includes an antibody combining site that binds to the therapeutic target.

3. The pharmaceutical of Claim 2 wherein the compound is bound to the antibody combining site of the antibody.

4. The pharmaceutical of Claim 3 wherein the compound is also linked to the antibody.

5. The pharmaceutical of Claim 3 wherein the compound is a peptide.

6. The pharmaceutical of Claim 5 wherein the avidity of the modified antibody combined with the peptide is at least 4-fold less than the avidity of the unmodified antibody and no more than 100-fold less.

7. The pharmaceutical of Claim 6 wherein the antibody is an aglycosylated antibody.

8. The pharmaceutical of Claim 7 wherein only one of the chains of the antibody has a peptide linked thereto that binds to the antibody combining site.

9. The pharmaceutical of Claim 3 wherein the compound is reversibly bound to the antibody combining site, whereby the amount of antibody that binds

to the target increases as the compound is displaced from the antibody combining site.

10. The pharmaceutical of Claim 9 wherein the compound bound to the antibody combining site is also linked to the antibody.

5 11. The pharmaceutical of Claim 10 wherein the compound is a peptide.

12. The pharmaceutical of Claim 11 wherein the Fc portion of the antibody is aglycosylated.

13. The pharmaceutical of Claim 11 wherein binding of the antibody to the Fc receptor is essentially eliminated.

10 14. The pharmaceutical of Claim 10 wherein the antibody is a non-human antibody.

15. The pharmaceutical of Claim 10 wherein the antibody is a chimeric antibody.

15 16. A process for treating a mammal, comprising administering to a mammal the pharmaceutical of Claim 1 in an amount effective to both treat the mammal and reduce side effects against the protein.